



Features

Use for Tip-dresser

- Current and Speed will be monitored in real time during tip-dressing, in order to protect the mold repairing device working in the normal status
- Recognize some possible damage which maybe breakdown the rotating motor when the motor is on the condition of overload or phase loss
- Control torque and speed accurately to achieve high-quality dress
- Send the real-time parameters to the weld controller or PLC, torque and speed can be setup via field bus
- Whether blade damage or missing part, SmartDrive can offer some corresponding fault code to avoid quality problem

The Quantsen SmartDrive™ is the high-precision variable-frequency motor controller for automotive industry. Whether monitoring the real-time current or speed, the SmartDrive can quickly and reliably detect variable-frequency motor's parameters in a continuous rotating state.

Use for Pallet

- The accuracy is 0.5mm
- SmartDrive can identity all type of motors to satisfy customer's requirement
- To regulate the speed of the motor with high efficiency, the motor basically keeps the rated slip
- Wide range of controlled speed, it can reach 20:1
- When the SmartDrive encounters failure, it will stop the system immediately to protect the whole equipment
- EtherNet/IP and PROFINET options

Use for other motion application

- According to the actual needs of the motor, SmartDrive provides the required power supply voltage
- Change motor's voltage by changing the frequency of the power supply, so as to achieve the purpose of energy saving and speed regulation

PRODUCT DATA SHEET

SmartDrive

Control the variable-frequency motor accurately and rapidly for automotive industry

Performance Characteristics

Main power connection

Voltage	3phase, 380~480v
Output Power	1.5/4/7.5kw
Frequency	48~63Hz

Motor connection

Voltage	3phase, 0~U _{supply}
Frequency	0~500Hz
Overload Capacity	120%~150%*I _{rated}
Accelerate Time	0.1~180s
Decelerate Time	0.1~180s
Speed/Torque Control	<10ms

Ambient Limit

Ambient Temperature	-15~50° C
Package Type	IP54
Relative Humidity	5%~95%

Graphic User Interface

The SmartDrive can be operated from the weld controller or from a pendant or standard computer via a convenient web-browser based graphical user interface.

Need a Customized Solution?

Contact SmartDrive Applications Support at justin_dou@quantsen.com and let our experts create a product configured to your exact requirements!



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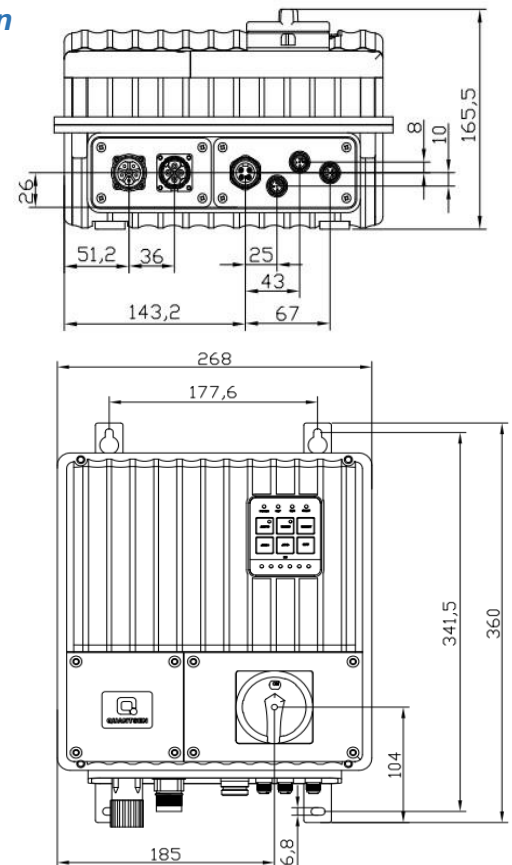
• EtherNet/IP(QSSD-02E40)

EtherNet/IP instruments offer the operational functionality over EtherNet networks. The SmartDrive can be operated from the robot system or PLC

• PROFINET(QSSD-02P75)

PROFINET instruments offer the operational functionality over PROFINET networks. The SmartDrive can be operated from the robot system or PLC

Dimension



Interface Capabilities

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